

#### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

December 06, 2013

#### WELL WORK PLUGGING PERMIT

#### Plugging

This permit, API Well Number: 47-2101548, issued to EQT PRODUCTION COMPANY, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654

James Martin

Chief

Operator's Well No: 157121 (W. JONES HEIRS #2)

Farm Name: JONES, GILBERT C/O THOMAS, A

API Well Number: 47-2101548

**Permit Type: Plugging**Date Issued: 12/06/2013

Promoting a healthy environment.

### **PERMIT CONDITIONS**

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

#### **CONDITIONS**

- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

Form WW-4 (B) Permit Copy (Rev 2/01) CK 16904

Date:	November 22, 2013
Operator's Well	
Well No.	157121 W. Jones Heirs #2
API Well No .:	47 021 - 01548

## STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

Waste Dispos	sal·	
Deep	Shallow	Χ
Quadrangle:	Gilmer 7 5'	369
d Agent: Rex C. 120 Professional Bridgeport, WV 2	. Ray I Place	
HydroCarbon Well S PO BOX 995		
	CEIVED Oil and Gas	
Office of	CEIVED Oil and Gas	
Office of DEC	Oil and Gas	
	120 Professional Bridgeport, WV 2 Contractor: HydroCarbon Well S PO BOX 995	d Agent: Rex C. Ray 120 Professional Place Bridgeport, WV 26330 Contractor: HydroCarbon Well Service PO BOX 995 Buckhannon, WV 26201

#### PLUGGING PROGNOSIS -Weston

W. Jones Heirs #2 (157121)

GILMER, COUNY, WEST VIRGINIA API # 47-021-01548

ELEVATION: 1076

Burnsville Quad

BY:

Craig Duckworth

DATE: 9/13/13

#### **CURRENT STATUS:**

10" csg

@ 230'

8 1/4" csg

@ 958'

4 1/2" csg

@ 2482' (70 sks cement)

#### TD @ 2482'

Fresh Water @ None Reported

Salt Water @ None reported

1st Salt Sand @ Estimated @ 1416'

Coal @ None reported

Gas shows @ Lime 2219', Lime 2376' & Sand 2400'

Oil Shows @ Lime 2376' Stimulation: Fractured

- 1. Notify State Inspector, Bryan Harris 304-553-6087, 24 hrs. Prior to commencing operations.
- 2. TIH w/ tbg @ 2480'; Set 300' C1A Cement Plug @ 2480' to 2180' ( gas show@ 2400 ,2376' & 2219 oil show @2376')
- TOOH w/ tbg, Free Point 4 1/2", cut 4 1/2" @ free point, TOOH w/ 4 1/2" csg
- 4. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 4 1/2" cut. Do not omit any plugs.
- 5. TIH w/ tbg @ 1416'; Set 100' C1A Cement Plug @ 1416' to 1316'(Salt Sand @ 1416')
- 6. TOOH w/ tbg @ 1316; gel hole @ 1316' to 1008'.
- 7. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 8 1/4" cut. Do not omit any plugs.
- 8. TOOH w/ tbg @ 1008'; Set 100' C1A Cement Plug @ 1008' to 908' (8 1/4" @ 958')
- 9. TOOH w/ tbg @ 908'; gel hole @ 908' to 280'
- 10. TIH w/ tbg @ 280'; Set 280' C1A Cement Plug @ 280' to Surface (10" @ 230')
- 11. Top off as needed
- 12. Set Monument to WV-DEP Specifications
- 13. Reclaim Location & Road to WV-DEP Specifications

RECEIVED Office of Oil and Gas

NOV 252013

WV Department of Environmental Protection

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## STATE OF WEST VINGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION 2

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Spudder		.•
Cable Tools	13	

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<del></del>	-					Of er	Gas Well 011 & Gs
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			st Virginia	Casing and Tubing	Used in Drifting	Left in Well	Packers
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Veli No	. 5		1076	16		!	<b></b>
'strice Glen	ville	County G	ilmer	. 12	23.5	23.5	Kind of Packer
The surface of tr	act is owned	in fee by WAT	ter Jones H		230	250	
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ith	rn			Liners Used			Perf. top
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•			Inch				
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1						Pee	
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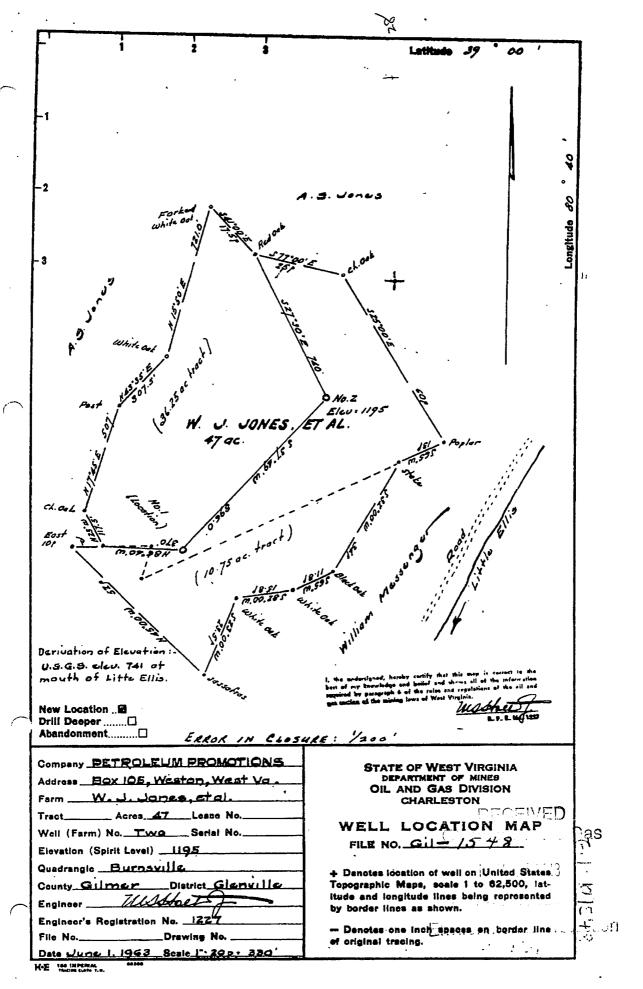
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WW-4-A	
Revised 6	6/07

## STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS NOTICE AND APPLICATION TO PLUG AND ABANDON WELL

4)	Surface Owner(s	to be served:	5) (a) Coal	Operator:	
	(a) Name	Robert R & Judith L. Jones Et Al	Name	None	
	Address	P.O. Box 1	Address		
		Sand Fork, WV 26430			
	(b) Name	Karen Beth Jones	(b) Coal Ow	ner(s) with Declaration	
	Address	701 Regency Dr.	Name	Robert R & Judith L. Jones	V
		Charleston, WV 25314		P.O. Box 1	
			Address	Sand Fork, WV 26430	
					/
	(c) Name	see attached sheet	Name	Karen Beth Jones	V
	Address		Address	701 Regency Dr.	
				Charleston, WV 25314	
		7		(see attached sheet)	V
3)	Inspector	Bryan Harris	(c) Coal Les	see with Declaration	
	Address	P.O. Box 157	Name	None	
		Volga, WV 26238	Address		
	Telephone	304-553-6087			

#### TO THE PERSONS NAMED ABOVE:

You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Division of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Opera	itor:	EQT Production Comp	pany
By:		Victoria J.Roark	11.1/4 /
Its:		Permitting Supervisor	The state of the s
Address:		PO Box 280	(DECEIVED
		Bridgeport, WV 26330	MEDE 1 COS
Telephone:		(304) 848-0076	Office of Oil and Ga
Subscribed and sworn before me this	22	day of Novem	oer , 2013 2 5 2013 Notary Public V 2 5 2013
Ny Commission Expires:	7-24-2	022	
			LENT DONALTINE IIV

The Office of Oil & Gas processes your personal information, such as name, address and phone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately security of the personal information, please contact DEP's Chief Privacy Officer and the privacy of the personal information, please contact DEP's Chief Privacy Officer and the privacy of the personal information, please contact DEP's Chief Privacy Officer and the privacy of the personal information and personal information, please contact DEP's Chief Privacy Officer and the privacy of the personal information and personal

Kathy M Kugel
PO Box 109
Davis, WV 26260
Commission Evalues August 24, 200

### WW2-A Additional Surface Owners:

Rita Annie Jones et al C/O Rosalee Cantrell 303 Oxford Dr.
Glen Burnie, MD 21061

Gilbert Jones

C/O Alcia J. Thomas
269 Tyler Hwy
Sistersville, WV 26175

✓ Betty Bryson
 C/O Herbert Bryson
 2783 Otter Creek Rd.
 Lasalle, MI 48145

Mary Lee McPherson
P.O. Box 221
Glenville, WV 26351

#### **Additional Coal Owners:**

Rita Annie Jones et al / C/O Rosalee Cantrell 303 Oxford Dr. Glen Burnie, MD 21061

Gilbert Jones ✓
✓ C/O Alcia J. Thomas
269 Tyler Hwy
Sistersville, WV 26175

Betty Bryson

C/O Herbert Bryson

2783 Otter Creek Rd.

Lasalle, MI 48145

Mary Lee McPherson
P.O. Box 221
Glenville, WV 26351

WW-9 Revised 2/03

Page_	of			14	
2) Opera	tor's We	II Nu	mber		9
157121 \	W. Jone	s He	irs #2		
3) API W	ell No :	47	021 -	01548	

#### STATE OF WEST VIRGINIA

## DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name:	EQT PRODUCTION	COMPANY	OP ID:	
Watershed:	Little Elli	s Creek	Quadrangle:	Gilmer 7.5'
Elevation:	1227' Cou	nty: Gilmer	District:	Glenville
Description of anti	cipated Pit Waste:		Formation Fluids	
170	using more than 5,000 bl	bls of water to complete t	he proposed well work? hat ml.?	Yes No_X_ 30 ml
Drilling medium ar	Underground Inject Reuse (at API Nut Offsite Disposal P Other: Explain Inticipated for this well? A ased, what type? Synther	ction - UIC Permit Numbermber) Permit #. Air, freshwater, oil based,		
If left in Landfill  I certify that I usessued on August understand that the permit and/or other	pit and plan to solidify what or offsite name/permit num nderstand and agree to to 1, 2005, by the Office of e provisions of the permit rapplicable law or regular	he terms and conditions of Oil and Gas of the West of the enforceable by law. ation can lead to enforcer	of the GENERAL WATER Virginia Division of Enviro Violations of any terms ment action.	onmental Protection. I or condition of the general
application form a for obtaining the ir	nd all attachments theret nformation, I believe that	rsonally examined and are to and that, based on my to the information is true, accordant to the polymers of the polymers.	inquiry of those individua ccurate and complete. I	als immediately responsible am aware that there are
Company Off	icial Signature	1/1	A IV	
Company Off	icial (Typed or Printed	) <u>Victoria Roark</u>		DEOLIVED)
Company Off	icial Title	Permitting Superviso	or-WV	Office of Oil and Gas
Subscribed an	d sworn before me this	22 day of	November	,, 2013
My Commission	thy M. Ku on Expires	g2 98-24-2026	Notary Rub	OFFICIAL SEAL NOTARY PUBLIC PO Box 109 Davis, WV 26260 My Commission Expires August 24, 2022

RECEIVED
Office of Oil and Gas

### OPERATOR'S WELL NO.: 157121 W. Jones Heirs #2

#### **LEGEND**

Property Boundary 20				,
WV Departme	• •	Diversion		
Environmental P	rotection	Spring	Wet Spot	
			-8-	
Planned Fence	Drain Pip	e with size in inches	Water Way	
_/_/_/		— 12 ——	<b>←</b> • • • • • • • • • • • • • • • • • • •	
Existing Fence	Stro	eam	Cross Drain	
Open Ditch		al Filter Strip	Rock	
North	Building	Water well	Drill site	4.*
N		W	$\bigoplus$	
	7	1	(======================================	
	ns/acre or to correct	1± Prevegetat to pH6.5 1/3 ton	ion pH 5.8  Ibs/acre (500 lbs minimi	ım)
Lime 3 Tor Fertilizer (10-20-20) or eq	ns/acre or to correct uivalent ns/acre or hydroseed	to pH 6.5 1/3 ton		ım)
Lime <u>3</u> Tor Fertilizer (10-20-20) or eq Mulch <u>2</u> Tor	ns/acre or to correct uivalent	to pH 6.5 1/3 ton	lbs/acre (500 lbs minim	ım)
Lime <u>3</u> Tor Fertilizer (10-20-20) or eq	ns/acre or to correct uivalent ns/acre or hydroseed	to pH 6.5 1/3 ton	lbs/acre (500 lbs minimi	
Lime 3 Tor Fertilizer (10-20-20) or eq Mulch 2 Tor Area I Seed Type	ns/acre or to correct uivalent ns/acre or hydroseed	to pH 6.5 1/3 ton	lbs/acre (500 lbs minimi Area II Ibs/ac	
Lime 3 Tor Fertilizer (10-20-20) or eq Mulch 2 Tor Area I	ns/acre or to correct uivalent ns/acre or hydroseed SEED MIXT Ibs/acre	to pH 6.5  1/3 ton  URES  Seed Type	lbs/acre (500 lbs minimi	
Fertilizer (10-20-20) or eq  Mulch 2 Tor  Area I  Seed Type  KY-31	ns/acre or to correct uivalent ns/acre or hydroseed SEED MIXT Ibs/acre	to pH 6.5  1/3 ton  I.  URES  Seed Type  Orchard Grass	lbs/acre (500 lbs minimi Area II lbs/ac	
Lime 3 Tor Fertilizer (10-20-20) or eq Mulch 2 Tor Area I Seed Type KY-31 Alsike Clover	ns/acre or to correct uivalent ns/acre or hydroseed SEED MIXT Ibs/acre 40 5	to pH 6.5  1/3 ton  I.  URES  Seed Type  Orchard Grass	lbs/acre (500 lbs minimi Area II lbs/ac	
Lime 3 Tor Fertilizer (10-20-20) or eq Mulch 2 Tor Area I Seed Type KY-31 Alsike Clover	ns/acre or to correct uivalent ns/acre or hydroseed SEED MIXT  Ibs/acre 40 5 15	to pH 6.5  1/3 ton  I.  URES  Seed Type  Orchard Grass  Alsike Clover  for land application.	lbs/acre (500 lbs minimi Area II lbs/ac	
Lime 3 Tor  Fertilizer (10-20-20) or eq  Mulch 2 Tor  Area I  Seed Type  KY-31  Alsike Clover  Annual Rye  ATTACH:  Drawing(s) of road, location, Photocopies section of involved process of the comments:  Comments:	ns/acre or to correct uivalent ns/acre or hydroseed SEED MIXT  Ibs/acre 40 5 15	to pH 6.5  1/3 ton  I.  URES  Seed Type  Orchard Grass  Alsike Clover  for land application.	lbs/acre (500 lbs minimi Area II lbs/ac	

Gilmer 7.5' 1 " = 2000' Topo Quad: Scale: Gilmer Date: October 17, 2013 County: Glenville Project No: 25-19-00-07 District: Торо 47-021-01548 WV 157121 (W. Jones Heirs #2) Well Upper Ellis BM 812 Messenger Wells Oil Well Oil Wells Keith 47-021-01548 WV 157121 Wells. Well Oil Well SAND a Cem Well BM 759 Ellis Oil Wells Conrad Oil Well McHenry... NAD 27, South Zone N: 710,985.56 Ellis Grove E: 2,081,999.66 Dyer Cem WGS 84 Ford LAT: 38.952224 BM 755 LONG: -80.711505 E N G ELEV: 1226.50 PREPARED FOR: SURVEYING AND MAPPING SERVICES PERFORMED BY: ALLEGHENY SURVEYS, INC. **EQT Production Company** 1-800-482-8606 P.O. Box 280 P.O. BOX 438 Bridgeport, WV 26330 BIRCH RIVER, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608



# West Virginia Department of Environmental Protection Office of Oil and Gas WELL LOCATION FORM: GPS

API: 47-021-01548 . WELL NO.: WV 157121 (W. Jones Heirs #2) .					
FARM NAME: Jones .					
RESPONSIBLE PARTY NAME: EQT Production Company .					
COUNTY: Gilmer DISTRICT: Glenville					
QUADRANGLE: Gilmer 7.5'					
SURFACE OWNER: Gilbert Jones c/o Alicia J. Thomas .					
ROYALTY OWNER: Betty Bryson, et al.					
UTM GPS NORTHING: _4311514					
UTM GPS EASTING:524998 GPS ELEVATION:374 m ( 1227 ft )					
The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:  1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.  2. Accuracy to Datum – 3.05 meters  3. Data Collection Method:  Survey grade GPS: Post Processed Differential  Real-Time Differential  Mapping Grade GPS _X_: Post Processed Differential  Real-Time Differential  4. Letter size copy of the topography map showing the well location.  I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.					
Signature $\frac{f_{3} \pm 2180}{\text{Title}}$ Date					
Date					



#### POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY LEASE NAME AND WELL No. W. Jones Heirs #2 WV 157121 (47-021-01548)

#### POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 157121.

RECEIVED Office of Oil and Gas

BIRCH RIVER OFFICE P.O. Box 438 \* 237 Birch River Road

Birch River, WV 26610 phone: 304-649-8606

fax: 304-649-8608

BRIDGEPORT OFFICE

172 Thompson Drive Bridgeport, WV 26330 phone: 304-848-5035 fax: 304-848-5037

CALDWELL OFFICE 212 Cumberland Street Caldwell, OH 43724

phone: 740-305-5007 fax: 740-305-5126

ALUM CREEK OFFICE P.O. Box 108 • 1413 Childress Road

Alum Creek, WV 25003 phone: 304-756-2949 of fax: 304-756-2948

Environmental Protection

WWW.ALLEGHENYSURVEYS.COM

Topo Quad:_	Gilmer 7.5'	Scale:	1 " = 200	00'
County:	Gilmer	Date:	October	17, 2013
District:	Glenville	Project No	:25-19-00	0-07
Water	47-021-01548 W	/V 157121 (W.	Jones Heir	s #2)
Gark Well Well of Well and wel	47-021-01548 WV 157124  OIL Well  OIL Well  OIL Well  Ford  SURVEYING AND MAPPING SE	Oil Well  Oil We	PREPARED FOR:	NAD 27, South Zone N: 710,985.56 E: 2,081,999.66 WGS 84 LAT: 38.952224 LONG: -80.711505 ELEV: 1226.50
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